

## **AMENDMENTS TO THE CLAIMS**

Please amend claims 10, 15 and 19, and cancel claims 13, 14 and 20, as set forth in the listing of claims that follows:

### **Listing of Claims:**

Claim 1. (withdrawn) An end cone for an exhaust emission control device, comprising:

an outer shell having an inner surface; and

an end cone insulator comprising insulation and binder defining a passage therethrough, said end cone insulator having a first surface being disposed adjacent to said inner surface and a second surface, at least a portion of said second surface being exposed to said passage.

Claim 2. (withdrawn) The end cone of claim 1, wherein at least a portion of said first surface of said end cone insulator is connected to said inner surface of said outer shell.

Claim 3. (withdrawn) The end cone of claim 1, wherein said end cone insulator further comprises:

a core having a first side and a second side, said first side for supporting a portion of said second surface, and said second side being connected to said outer shell.

Claim 4. (withdrawn) The end cone of claim 3, wherein said end cone insulator further comprises a mesh forming said second surface.

Claim 5. (withdrawn) The end cone of claim 1, wherein said end cone insulator further comprises a mesh forming said second surface.

Claim 6. (withdrawn) A method of manufacturing an end cone, comprising:

forming an outer shell, said outer shell having an inside surface;  
forming an end cone insulator comprising binder and insulation, said end cone insulator having an inboard end, an outboard end, a first surface, and a second surface; and  
disposing said end cone insulator in said outer shell such that said inside surface and said first surface are adjacent, and such that at least a portion of said second surface is exposed.

Claim 7. (withdrawn) The method of claim 6, further comprising:  
connecting a first end of a core to said outer shell, and connecting a second end of said core to said end cone insulator.

Claim 8. (withdrawn) The method of claim 7, further comprising forming said second surface of a mesh.

Claim 9. (withdrawn) The method of claim 6, further comprising forming said second surface of a mesh.

Claim 10. (currently amended) An exhaust emission control device, comprising:

a substrate;  
a housing having an inlet end and an outlet end;  
a retention material supporting said substrate in said housing between said inlet end and said outlet end;

a pair of outer shells, one of said outer shells being disposed on said inlet end, and a second one of said outer shells being disposed on said outlet end; and

a pair of insulators comprised of insulation and binder, said insulators having a first surface disposed adjacent to an inner surface of said outer shell, ~~each of said insulators being connected at least at an outboard end to said outer shells, and each~~

~~of said insulators being supported at an inboard end by said substrate and said retention material.~~ and a second surface defining inlet and outlet passages of said exhaust emission control device, said second surface extending from an insulator inboard end to an insulator outboard end;

an open, woven mesh overlaying the second surface of the insulator associated with the inlet end and extending from an inboard end adjacent said insulator inboard end to an outboard end adjacent said insulator outboard end, and

an annular core affixed to the inner surface of each outer shell adjacent the outboard end of the associated insulator and extending inwardly to circumferentially overlay and retain the outboard end of the mesh to the insulator second surface,

wherein the substrate and retention material overlays and retains the inboard end of the mesh to the insulator second surface.

Claim 11. (original) The exhaust emission control device of claim 10, wherein said substrate is selected from the group consisting of a catalytic converting substrate, a catalytic absorbing substrate, a diesel particulate trapping substrate, and a non-thermal plasma converting substrate.

Claim 12. (original) The exhaust emission control device of claim 10, wherein said insulators each further comprise a core, said core connecting said outboard end to said outer shells.

Claims 13-14 (canceled)

Claim 15. (currently amended) A method of manufacturing an exhaust emission control device, comprising:

forming insulators from binder and insulation, said insulators having an inboard end, an outboard end, a first surface, and a second surface opposite said first surface, said second surface defining a passage of said exhaust emission control device;

supporting a substrate in a housing with a retention material, said housing having an inlet end and an outlet end;

placing an open, woven mesh over said second surface;

placing a first one of said insulators and associated mesh at said inlet end such that its inboard end is and adjacent mesh are supported by said substrate and said retention material; ~~and~~

affixing an annular core to the housing inlet end and extending the core to overlay and retain the outboard end of the insulator and adjacent mesh; and

placing a second one of said insulators at said outlet end such that its inboard end is supported by said substrate and said retention material.

Claim 16. (original) The method of claim 15, further comprising: connecting a first outer shell to said inlet end over said first one of said insulators; and

connecting a second outer shell to said outlet end over said second one of said insulators.

Claim 17. (original) The method of claim 15, wherein said housing includes an integral outer shell at said inlet end and said outlet end.

Claim 18. (original) The method of claim 17, further comprising: connecting said integral outer shell at said inlet end over said first one of said insulators; and

connecting said integral outer shell at said outlet end over said second one of said insulators.

Claim 19. (currently amended) The method of claim 15, further comprising connecting a core to said outboard end of ~~said insulators~~ the insulator associated with the outlet end.

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Claim 20 (canceled)